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Preface. I. Semi-hereditary and Prüfer orders. 1. Elementary properties of orders. 2. General theory of semi-hereditary and Prüfer orders. 3. The centers of semi-hereditary D-orders. 4. Characterizations of semi-hereditary D-orders. II. Dubrovin valuation rings. 5. Elementary properties of Dubrovin valuation rings. 6. The ideal theory of Dubrovin valuation rings. 7. Dubrovin valuation rings of a simple Artinian ring with finite dimension over its center. 8. Invariant and total valuation rings of a division ring with finite dimension over its center. 9. The existence and conjugacy theorems. 10. The residue rings and value groups. 11. Immediate compatible extensions. 12. Dubrovin valuation rings integral over their centers. 13. Prime and primary ideals of Dubrovin valuation rings. III. Semi-local Bezout orders. 14. Localizations of Bezout orders. 15. Approximation theorem for Dubrovin valuation rings. 16. The intersection properties of semi-local Bezout orders. 17. Characterisations of semi-local Bezout orders. 18. Prime and primary ideals of semi-local Bezout orders. 19. Defect theorem for central simple algebras. IV. The applications and examples. 20. Idealizers of semi-hereditary V-orders. 21. Prüfer orders finitely generated over their centers. 22. Strongly Prüfer orders. 23. Value functions on simple Artinian rings. 24. Dubrovin valuation rings in crossed product algebras. 25. Matrix rings over invariant valuation rings. 26. Bezout orders and Henselization. Appendix. A1. Semi-perfect rings and serial rings. A2. Coherent rings. A3. Azumaya algebras. A4. The lifting idempotents. A5. Wedderburn's theorem. References. Index of notation. Index.

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